

**WHAT IS CLAIMED IS:**

1           **1.**       A pre-cast polyacrylamide slab gel for use in slab gel electrophoresis,  
2 said pre-cast gel comprising:

3                 a pair of chemically inert, transparent plates with inner surfaces coated with a  
4 nonionic amphiphilic polymer, and

5                 a polyacrylamide gel cast between said plates.

1           **2.**       A pre-cast polyacrylamide slab gel in accordance with claim **1** in  
2 which said nonionic amphiphilic polymer is polyvinyl alcohol.

1           **3.**       A pre-cast polyacrylamide slab gel in accordance with claim **1** in  
2 which said nonionic amphiphilic polymer is polyethylene glycol.

1           **4.**       A pre-cast polyacrylamide slab gel in accordance with claim **1** in  
2 which said plates are glass.

1           **5.**       A pre-cast polyacrylamide slab gel in accordance with claim **1** in  
2 which said plates are plastic.

1           **6.**       A pre-cast polyacrylamide slab gel in accordance with claim **1** in  
2 which said plates are polystyrene-acrylonitrile blend.

1           **7.**       A pre-cast polyacrylamide slab gel in accordance with claim **1** further  
2 comprising a coating of polyvinylidene chloride between said plate and said coating of  
3 nonionic amphiphilic polymer.